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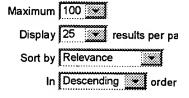
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Surkan, A.J.; Wendel, F.C.; Lee, S.M.;
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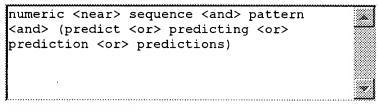
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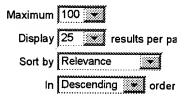» Learn more about Field Codes, Search Examples, and Search Operators

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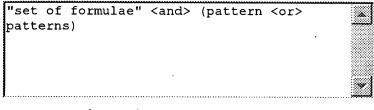BROWSE   SEARCH   IEEE XPLORE GUIDE

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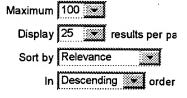» Learn more about Field Codes, Search Examples, and Search Operators

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☐   2. **Fourier and spectral envelope analysis of medically important bacterial a sequences**
Chan, K.K.H.; Chunqi Chang; Chan, F.H.Y.;
Circuits and Systems, 2004. MWSCAS '04. The 2004 47th Midwest Symposiur
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AbstractPlus | Full Text: PDF(432 KB)   IEEE CNF

☐   3. **Hybrid wavelet packet-support vector classification of atrial activation pa**
Strauss, D.J.; Jung, J.;
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Rykov, V.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on
Volume 1, 7-10 Oct. 2001 Page(s):476 - 478 vol.1
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Surkan, A.J.; Wendel, F.C.; Lee, S.M.;
System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii Inter
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Volume iv, 2-5 Jan. 1990 Page(s):335 - 339 vol.4
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AbstractPlus | Full Text: PDF(356 KB)   IEEE CNF

☐   6.
Analysis of transients on basis of identification of signal generative struc

chaos
Pao, Y.-H.; Zwingelstein, G.M.; Sobajic, D.J.;
Neural Networks, 1990., 1990 IJCNN International Joint Conference on
17-21 June 1990 Page(s):47 - 55 vol.3
Digital Object Identifier 10.1109/IJCNN.1990.137823

AbstractPlus | Full Text: PDF(532 KB)   IEEE CNF

7. **An heterogeneous M-SIMD architecture for Kalman filter controlled proce
   sequences**
   Nudd, G.R.; Atherton, T.J.; Kerbyson, D.J.;
   Computer Vision and Pattern Recognition, 1992. Proceedings CVPR '92., 199:
   Society Conference on
   15-18 June 1992 Page(s):842 - 845
   Digital Object Identifier 10.1109/CVPR.1992.223243

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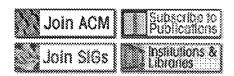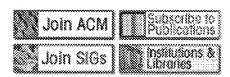Volume 14 Issue 3

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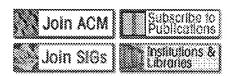Volume 14 Issue 3

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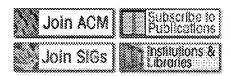ACM Transactions on Software Engineering and Methodology (TOSEM)
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1 Integrated document caching and prefetching in storage hierarchies based on Markov-chain predictions   ■
Achim Kraiss, Gerhard Weikum
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3
Full text available: ▦ pdf(603.01 KB)   Additional Information: full citation, abstract, citings, index terms

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keywords: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage

2 On learning visual concepts and DNF formulae   ▬
Eyal Kushilevitz, Dan Roth
August 1993 **Proceedings of the sixth annual conference on Computational learning theory**
Full text available: ▦ pdf(880.88 KB)   Additional Information: full citation, references, citings, index terms

3 Research sessions: moving objects: Prediction and indexing of moving objects with unknown motion patterns   ▬
Yufei Tao, Christos Faloutsos, Dimitris Papadias, Bin Liu
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: ▦ pdf(335.08 KB)   Additional Information: full citation, abstract, references

Existing methods for peediction spatio-temporal databases assume that objects move according to linear functions. This severely limits their applicability, since in practice movement is more complex, and individual objects may follow drastically diffferent motion patterns. In order to overcome these problems, we first introduce a general framework for monitoring and indexing moving objects, where (i) each boject computes individually the

function that accurately captures its movement and (ii) a ...

4 Adaptive algorithms for set containment joins

Sergey Melnik, Hector Garcia-Molina

March 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 1

Full text available: pdf(485.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

A set containment join is a join between set-valued attributes of two relations, whose join condition is specified using the subset ($\subseteq$) operator. Set containment joins are deployed in many database applications, even those that do not support set-valued attributes. In this article, we propose two novel partitioning algorithms, called the Adaptive Pick-and-Sweep Join (APSJ) and the Adaptive Divide-and-Conquer Join (ADCJ), which allow computing set containment joins efficiently. We show that ...

5 Computational learning theory: survey and selected bibliography

Dana Angluin

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Full text available: pdf(2.11 MB)   Additional Information: full citation, references, citings, index terms, review

6 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

7 Cross-architecture performance predictions for scientific applications using parameterized models

Gabriel Marin, John Mellor-Crummey

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems**, Volume 32 Issue 1

Full text available: pdf(693.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a toolkit for semi-automatically measuring and modeling static and dynamic characteristics of applications in an architecture-neutral fashion. For predictable applications, models of dynamic characteristics have a convex and differentiable profile. Our toolkit operates on application binaries and succeeds in modeling key application characteristics that determine program performance. We use these characterizations to explore the interactions between an application and a targ ...

Keywords: modeling, performance analysis, prediction

8 Using value prediction to increase the power of speculative execution hardware

Freddy Gabbay, Avi Mendelson

August 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 3

Full text available: pdf(289.77 KB)   Additional Information: full citation, abstract, references, citings, index terms

This article presents an experimental and analytical study of value prediction and its impact on speculative execution in superscalar microprocessors. Value prediction is a new paradigm that suggests predicting outcome values of operations (at run-time) and using these predicted values to trigger the execution of true-data-dependent operations speculatively. As a result, stals to memory locations can be reduced and the amount of instruction-level parallelism can be extended beyond the limi ...

Keywords: speculative execution, stride value prediction, value prediction

9 Special issue: Game-playing programs: theory and practice
M. A. Bramer
April 1972 **ACM SIGART Bulletin**, Issue 80

Full text available: pdf(9.23 MB)   Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

10 Static correlated branch prediction
Cliff Young, Michael D. Smith
September 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 5

Full text available: pdf(508.49 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recent work in history-based branch prediction uses novel hardware structures to capture branch correlation and increase branch prediction accuracy. Branch correlation occurs when the outcome of a conditional branch can be accurately predicted by observing the outcomes of previously executed branches in the dynamic instruction stream. In this article, we show how to instrument a program so that it is practical to collect run-time statistics that indicate where branch correl ...

Keywords: branch correlation, branch prediction, path profiling, profile-driven optimization

11 Analysis of predictive spatio-temporal queries
Yufei Tao, Jimeng Sun, Dimitris Papadias
December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(575.50 KB)   Additional Information: full citation, abstract, references, index terms

Given a set of objects S, a spatio-temporal *window query q* retrieves the objects of S that will intersect the window during the (future) interval q_T. A *nearest neighbor query q* retrieves the objects of S closest to q during q_T. Given a threshold d, a spatio-temporal *join* retrieves the pairs of objects from two datasets that will come within distance d from each other during q
Keywords: Database, histogram, nearest distance, selectivity, spatio-temporal

12 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted
to a survey of current knowledge representation research. We felt that there were twe
useful functions such an issue could serve. First, we hoped to elicit a clear picture of how
people working in this subdiscipline understand knowledge representation research, to
illuminate the issues on which current research is focused, and to catalogue what
approaches and techniques are currently being developed. Secon ...

13 Locality phase prediction

Xipeng Shen, Yutao Zhong, Chen Ding

October 2004 **Proceedings of the 11th international conference on Architectural
support for programming languages and operating systems**, Volume 38 , 39 ,
32 Issue 5 , 11 , 5

Full text available: pdf(739.91 KB)   Additional Information: full citation, abstract, references, index terms

As computer memory hierarchy becomes adaptive, its performance increasingly depends on
forecasting the dynamic program locality. This paper presents a method that predicts the
locality phases of a program by a combination of locality profiling and run-time prediction.
By profiling a training input, it identifies locality phases by sifting through all accesses to all
data elements using variable-distance sampling, wavelet filtering, and optimal phase
partitioning. It then constructs a phase hiera ...

Keywords: dynamic optimization, locality analysis and optimization, phase hierarchy,
program phase analysis and prediction, reconfigurable architecture

14 Self-spacial join selectivity estimation using fractal concepts

Alberto Belussi, Christos Faloutsos

April 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 2

Full text available: pdf(2.28 MB)   Additional Information: full citation, abstract, references, citings, index
terms

The problem of selectivity estimation for queries of nontraditional databases is still an open
issue. In this article, we examine the problem of selectivity estimation for some types of
spatial queries in databases containing real data. We have shown earlier [Faloutsos and
Kamel 1994] that real point sets typically have a nonuniform distribution, violating
consistently the uniformity and independence assumptions. Moreover, we demonstrated
that the theory of ...

Keywords: fractal dimension, range query, selectivity estimation, spatial join

15 Predicting whole-program locality through reuse distance analysis

Chen Ding, Yutao Zhong

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference
on Programming language design and implementation**, Volume 38 Issue 5

Full text available: pdf(297.60 KB)   Additional Information: full citation, abstract, references, citings, index
terms

Profiling can accurately analyze program behavior for select data inputs. We show that
profiling can also predict program locality for inputs other than profiled ones. Here locality is
defined by the distance of data reuse. Studying whole-program data reuse may reveal
global patterns not apparent in short-distance reuses or local control flow. However, the
analysis must meet two requirements to be useful. The first is efficiency. It needs to
analyze all accesses to all data elements in full-size ...

Keywords: data locality, pattern recognition, prediction, profiling, program locality, reuse

distance, sampling, stack distance, training

16 Predictive distance-based mobility management for multidimensional PCS networks

Ben Liang, Zygmunt J. Haas

October 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 5

Full text available: pdf(979.42 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a mobile tracking scheme that exploits the predictability of user mobility patterns in wireless PCS networks. In this scheme, a mobile's future location is predicted by the network, based on the information gathered from the mobile's recent report of location and velocity. When a call is made, the network pages the destination mobile around the predicted location. A mobile makes the same location prediction as the network does; it inspects its own location periodically and re ...

Keywords: Gauss-Markov model, distance-based location management, dynamic parameter estimation, fluid flow, mobility pattern, predictive mobility management, random walk, wireless networking

17 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

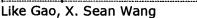**18** On learning embedded symmetric concepts

Avrim Blum, Prasad Chalasani, Jeffrey Jackson

August 1993 **Proceedings of the sixth annual conference on Computational learning theory**

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

19 Research sessions: similarity and matching: Continually evaluating similarity-based pattern queries on a streaming time series

Like Gao, X. Sean Wang

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings, index terms

In many applications, local or remote sensors send in streams of data, and the system needs to monitor the streams to discover relevant events/patterns and deliver instant reaction correspondingly. An important scenario is that the incoming stream is a continually appended time series, and the patterns are time series in a database. At each time when a

new value arrives (called a time position), the system needs to find, from the database, the nearest or near neighbors of the incoming time serie ...

20 Session 10: active measurement: Predicting and bypassing end-to-end internet service degradations

Anat Bremler-Barr, Edith Cohen, Haim Kaplan, Yishay Mansour

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurment**

Full text available: pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

We study the patterns and predictability of Internet End-to-End service *degradations*, where a degradation is a significant deviation of the round trip time between a client and a server. We use simultaneous RTT measurements collected from several locations to a large representative set of Web sites and study the duration and extent of degradations. We combine these measurements with BGP cluster information to learn on the location of the cause.We evaluate a number of predictors based upon ...

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